MD 80 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

PROPOSED SIGNAL HEADS

1 (R, Y, G) 8" — 2-9 (R, Y, G) 12" — 10,11 12"

PROPOSED SIGNS

12 — W3-3 (36" X 36") W/"NEW" PANEL (30" X 30") AND FLAGS

15,22 — S1-1 (36" X 36") M6-2L (21" X 15")

17,24 — S1-1 (36" X 36") M6-2R (21" X 15")

PROPOSED SIGNS (CONT.)

16,18,21,23 — Campus Dr — D-3(1) (DUAL FACED) (VARIABLE x 16")

14,20 — SCHOOL — S1-1 (36" X 36") S4-3 (30" X 12")

27 — R4-7 (24" X 30")

19 — Campus Dr. — W3-3 (36" X 36") W/"NEW" PANEL (30" X 30") AND D-3(2) (72" X 18")

25 — WEST 80 EAST — M95-1 (72" X 24")

28 — EAST 80 WEST — M95-1 (72" X 24")

13 — Campus Dr. NEXT SIGNAL — D-3(3) (WHITE ON GREEN) (72" x 24") (SEE GENERAL NOTE #6)

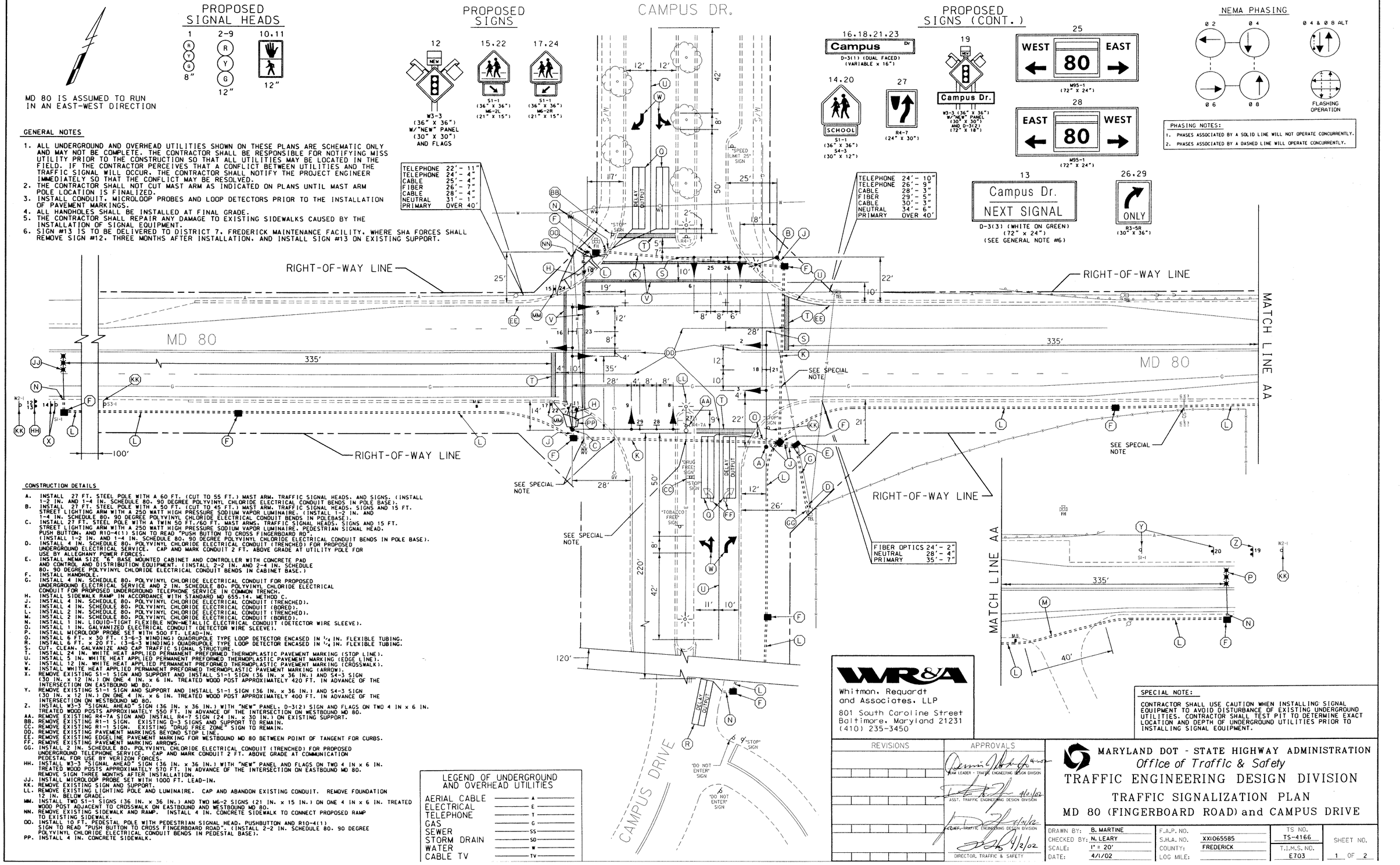
26,29 — ONLY — R3-5R (30" X 36")

NEMA PHASING

PHASING NOTES:
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. THE CONTRACTOR SHALL NOT CUT MAST ARM AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
3. INSTALL CONDUIT, MICROLOOP PROBES AND LOOP DETECTORS PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
4. ALL HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
5. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
6. SIGN #13 IS TO BE DELIVERED TO DISTRICT 7, FREDERICK MAINTENANCE FACILITY, WHERE SHA FORCES SHALL REMOVE SIGN #12, THREE MONTHS AFTER INSTALLATION, AND INSTALL SIGN #13 ON EXISTING SUPPORT.



CONSTRUCTION DETAILS

A. INSTALL 27 FT. STEEL POLE WITH A 60 FT. (CUT TO 55 FT.) MAST ARM, TRAFFIC SIGNAL HEADS, AND SIGNS. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
B. INSTALL 27 FT. STEEL POLE WITH A 50 FT. (CUT TO 45 FT.) MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLEBASE).
C. INSTALL 27 FT. STEEL POLE WITH A TWIN 50 FT./60 FT. MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE, PEDESTRIAN SIGNAL HEAD, PUSH BUTTON, AND R10-4(1) SIGN TO READ "PUSH BUTTON TO CROSS FINGERBOARD RD". (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
D. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY ALLEGHANY POWER FORCES.
E. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD AND CONTROL AND DISTRIBUTION EQUIPMENT. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
F. INSTALL HANDHOLE.
G. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE AND 2 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND TELEPHONE SERVICE IN COMMON TRENCH.
H. INSTALL SIDEWALK RAMP IN ACCORDANCE WITH STANDARD MD 655.14, METHOD C.
J. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
K. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
L. INSTALL 2 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
M. INSTALL 2 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
N. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
P. INSTALL 1 IN. GALVANIZED ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
Q. INSTALL MICROLOOP PROBE SET WITH 500 FT. LEAD-IN.
R. INSTALL 6 FT. x 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
S. INSTALL 6 FT. x 20 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
T. CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
U. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
V. INSTALL 5 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (EDGE LINE).
W. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK).
X. INSTALL WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROW).
Y. REMOVE EXISTING S1-1 SIGN AND SUPPORT AND INSTALL S1-1 SIGN (36 IN. x 36 IN.) AND S4-3 SIGN (30 IN. x 12 IN.) ON ONE 4 IN. x 6 IN. TREATED WOOD POST APPROXIMATELY 420 FT. IN ADVANCE OF THE INTERSECTION ON EASTBOUND MD 80.
Z. REMOVE EXISTING S1-1 SIGN AND SUPPORT AND INSTALL S1-1 SIGN (36 IN. x 36 IN.) AND S4-3 SIGN (30 IN. x 12 IN.) ON ONE 4 IN. x 6 IN. TREATED WOOD POST APPROXIMATELY 400 FT. IN ADVANCE OF THE INTERSECTION ON WESTBOUND MD 80.
AA. INSTALL W3-3 "SIGNAL AHEAD" SIGN (36 IN. x 36 IN.) WITH "NEW" PANEL, D-3(2) SIGN AND FLAGS ON TWO 4 IN x 6 IN. TREATED WOOD POSTS APPROXIMATELY 550 FT. IN ADVANCE OF THE INTERSECTION ON WESTBOUND MD 80.
BB. REMOVE EXISTING R4-7A SIGN AND INSTALL R4-7 SIGN (24 IN. x 30 IN.) ON EXISTING SUPPORT.
CC. REMOVE EXISTING R1-1 SIGN. EXISTING D-3 SIGNS AND SUPPORT TO REMAIN.
DD. REMOVE EXISTING R1-1 SIGN. EXISTING "DRUG FREE ZONE" SIGN TO REMAIN.
EE. REMOVE EXISTING PAVEMENT MARKINGS BEYOND STOP LINE.
FF. REMOVE EXISTING EDGELINE PAVEMENT MARKING FOR WESTBOUND MD 80 BETWEEN POINT OF TANGENT FOR CURBS.
GG. REMOVE EXISTING PAVEMENT MARKING ARROWS.
HH. INSTALL 2 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT COMMUNICATION PEDESTAL FOR USE BY VERIZON FORCES.
JJ. INSTALL W3-3 "SIGNAL AHEAD" SIGN (36 IN. x 36 IN.) WITH "NEW" PANEL AND FLAGS ON TWO 4 IN x 6 IN. TREATED WOOD POSTS APPROXIMATELY 570 FT. IN ADVANCE OF THE INTERSECTION ON EASTBOUND MD 80. REMOVE SIGN THREE MONTHS AFTER INSTALLATION.
KK. INSTALL MICROLOOP PROBE SET WITH 1000 FT. LEAD-IN.
LL. REMOVE EXISTING SIGN AND SUPPORT.
MM. REMOVE EXISTING LIGHTING POLE AND LUMINAIRE. CAP AND ABANDON EXISTING CONDUIT. REMOVE FOUNDATION 12 IN. BELOW GRADE.
NN. INSTALL TWO S1-1 SIGNS (36 IN. x 36 IN.) AND TWO M6-2 SIGNS (21 IN. x 15 IN.) ON ONE 4 IN x 6 IN. TREATED WOOD POST ADJACENT TO CROSSWALK ON EASTBOUND AND WESTBOUND MD 80.
OO. REMOVE EXISTING SIDEWALK AND RAMP. INSTALL 4 IN. CONCRETE SIDEWALK TO CONNECT PROPOSED RAMP TO EXISTING SIDEWALK.
PP. INSTALL 10 FT. PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND R10-4(1) SIGN TO READ "PUSH BUTTON TO CROSS FINGERBOARD ROAD". (INSTALL 2-2 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
PP. INSTALL 4 IN. CONCRETE SIDEWALK.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE — A
ELECTRICAL — E
TELEPHONE — T
GAS — G
SEWER — SS
STORM DRAIN — SD
WATER — W
CABLE TV — TV

SPECIAL NOTE:
CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGNAL EQUIPMENT.

WR&A
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REVISIONS

APPROVALS

TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION

4/1/02
ASST. TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

4/2/02
DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 80 (FINGERBOARD ROAD) and CAMPUS DRIVE

DRAWN BY:	B. MARTINE	F.A.P. NO.		TS NO.	SHEET NO.
CHECKED BY:	N. LEARY	S.H.A. NO.	XXI065585	TS-4166	1 OF 2
SCALE:	1" = 20'	COUNTY:	FREDERICK	T.I.M.S. NO.	
DATE:	4/1/02	LOG MILE:		E703	